UNIVERSITY *of* WASHINGTON

Michael K. Young
President

June 23, 2014

Dean Michael B. Bragg
College of Engineering
Box 352180

Dear Michael:

Based on the recommendation of its Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of the revised admission, program, and continuation requirements for the Bachelor of Science in Human Centered Design and Engineering degree. A copy of the changes is attached.

I am writing to inform you that the Department of Human Centered Design and Engineering is authorized to specify these requirements beginning autumn quarter 2015.

The new requirements should be incorporated in printed statements and in individual department websites as soon as possible. The *General Catalog* website will be updated accordingly by the Registrar's Office.

Sincerely yours,

Michael K. Young
President

Enclosure

cc: Dr. Jennifer Turns (with enclosure)
Mr. Robert Corbett (with enclosure)
Ms. Virjean Edwards (with enclosure)

301 Gerberding Hall • Box 351230 • Seattle, Washington 98195-1230 • 206.543.5010 • Fax 206.616.1784 • president@uw.edu

UNIVERSITY OF WASHINGTON

CREATING AND CHANGING UNDERGRADUATE ACADEMIC PROGRAMS

MAY 30 2014

OFFICE USE ONLY

Control # HCDE-20140527

After college/school/campus review, send a signed original and 1 copy to the Curriculum Office/FCAS, Box 355850.

For information about when and how to use this form: http://depts.washington.edu/uwcr/1503instructions.pdf

College/Campus Engineering/Seattle	Department/Unit HCDE	Date May 27, 2014

New Programs

- ☐ Leading to a Bachelor of _____ in _____ degree.
- ☐ Leading to a Bachelor of _____degree with a major in _____.
- ☐ Leading to a _____ Option within the existing major in _____.
- ☐ Leading to a minor in _____

Changes to Existing Programs

- ☐ New Admission Requirements for the Major in _____ within the Bachelor of _____.
- ☒ Revised Admission Requirements for the Major in HCDE within the Bachelor of Science.
- ☒ Revised Program Requirements for the Major in HCDE within the Bachelor of Science.
- ☐ Revised Requirements for the Option in _____within the major in _____.
- ☐ Revised Requirements for the Minor in _____.

Other Changes

- ☐ Change name of program from _____ to _____.
- ☐ Change delivery method or location of program.
- ☒ New or Revised Continuation Policy for HCDE
- ☐ New Honors Requirements for _____.
- ☐ Eliminate program in _____.

Proposed Effective Date: **Quarter:** ☒ Autumn ☐ Winter ☐ Spring ☐ Summer **Year: 20 15**

Contact Person: Jennifer Turns	Phone:	Email: jturns@uw.edu	Box: 352315

EXPLANATION OF AND RATIONALE FOR PROPOSED CHANGE

For new program, please include any relevant supporting documentation such as student learning outcomes, projected enrollments, letters of support and departmental handouts. (*Use additional pages if necessary*).

Attachment A represents the current catalog description; attachment B represents the proposed revision. We are proposing changes to pre-requisites and the major requirements for the BS degree in HCD&E. The proposed changes will enable a more flexible curriculum, including more elective options, and more opportunity for study abroad, improve our program's sequencing and prerequisites, and adjust program requirements based on trends in the field and feedback from our alumni and their employers.

As part of this revision to the catalog, we have also

- *Developed a continuation policy (included as attachment C). A reference to the continuation policy is now included in the catalog copy,*
- *Proposed a new set of objectives for the BS degree,*
- *Provided additional detail on the HCI option that has long been available to our majors (Attachment D provides additional detail from our website), and*
- *Proposed additional edits to our catalog description.*

OTHER DEPARTMENTS AFFECTED

List all departments/units/ or co-accredited programs affected by your new program or changes to your existing program and acquire the signature of the chair/director of each department/unit listed. Attach additional page(s) if necessary. *See online instructions.

Department/Unit:	Chair/Program Director:	Date:
Department/Unit:	Chair/Program Director	Date:

CATALOG COPY

Catalog Copy as currently written. Include only sections/paragraphs that would be changed if your request is approved. Please cross out or otherwise highlight any deletions.

See attachment A

PROPOSED CATALOG COPY

Reflecting requested changes (Include exact wording as you wish it to be shown in the printed catalog. Please underline or otherwise highlight any additions. If needed, attach a separate, expanded version of the changes that might appear in department publications). **Please note:** all copy will be edited to reflect uniform style in the General Catalog.

See attachment B

APPROVALS

Chair/Program Director:	Date: 5-27-14
College/School/Campus Curriculum Committee:	Date: 5/30/14
Dean/Vice Chancellor:	Date:
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	Date: 16 June 2014

POST TRI-CAMPUS APPROVAL (when needed)

Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	Date:

Attachment A – Existing Catalog Copy

Undergraduate Program

Adviser
428 Sieg, Box 352315
(206) 543-2567
hcde@uw.edu

The Department of Human Centered Design and Engineering (HCDE) offers the following programs of study:

- Bachelor of Science in Human Centered Design and Engineering degree
- A minor in technical Japanese

Bachelor of Science in Human Centered Design and Engineering

Suggested First-Year College Courses: at least 5 credits of composition and approved mathematics or statistics (see list on HCDE website), approved science (see list on HCDE website)

Department Admission Requirements

Admission is competitive. Completion of minimum requirements does not guarantee admission. All applicants have the right to petition and appeal the department's admission decision.

Direct Freshman Admission

The department enrolls up to 30% of its incoming class directly from high school, prior to completion of University-level prerequisites. Students accepted to the UW who indicate Human Centered Design and Engineering as their preferred major on the freshman application are automatically considered. Competitive applicants have taken or are taking calculus and at least two years of laboratory science (physics, chemistry preferred) in high school. Admission is for autumn quarter only.

Regular Admission

1. *Course requirements:* 10 credits of approved mathematics or statistics; 15 credits of approved natural science; ~~and~~ 10 credits of approved written and oral communication; and CSE 140 or CSE 142. All courses must be completed prior to the July 1 or February 1 application deadlines.
2. Application deadline: July 1 for autumn quarter and February 1 for spring quarter.
3. Students applying in the senior year must spend a minimum of four quarters in the program.
4. *Grade requirements:* Minimum 3.00 GPA in written and oral communications

courses and minimum 2.00 cumulative GPA.

Graduation Requirements

180 credits as follows:

General Education Requirements (93 credits)

1. *Written and Oral Communication (13 credits):* 5 credits of English composition from the University list; HCDE 231; 5 credits of oral/written communication from HCDE list (see adviser)
2. *Visual, Literary, & Performing Arts (VLPA), and Individuals & Societies (I&S) (30 credits):* Minimum of 10 credits is required in each area
3. *Mathematics and Natural Science (50 credits):*
    a. *Mathematics (minimum 15 credits; see list of qualifying courses on HCDE website)*
    b. *Science (minimum 15 credits; see list of qualifying courses on HCDE website)*

Major Requirements (83-87 credits)

1. *HCDE Core (52 credits)*: HCDE 300, HCDE 303, HCDE 310, HCDE 313, HCDE 321, HCDE 411, HCDE 417, HCDE 418, HCDE 437, HCDE 493, HCDE 495 (3), HCDE 496 (2)
2. *Technical/Analytical (12 credits):* Must include CSE 140 or CSE 142
3. *Area of Concentration (19-23 credits):* Students may choose a transcriptable option in Human-Computer Interaction (HCI) or select a coherent and relevant list of approved electives to create a non-transcripted, individualized area of specialization, aligned with their personal interests or career goals. See adviser for transcriptable options and individualized area of specialization.
4. *Free Electives (1-5 credits)*

Minor

Minor Requirements: Technical Japanese: Minimum of 25 credits to include HCDE 461 (5), HCDE 462 (5), HCDE 463 (5), plus 10 credits from the approved list of elective courses. For more information, contact the Technical Japanese Office, 13 Engineering Library.

Student Outcomes and Opportunities

- *Learning Objectives and Expected Outcomes:* The department has identified several areas of competency for students. By achieving mastery in all these areas,

Attachment B~~—~~: Proposed Catalog Copy (shows deletions & additions)

Undergraduate Program

~~Adviser~~Advisor
428 Sieg, Box 352315
(206) 543-2567
http://www.hcde.washington.edu/
~~hcde@uw.edu~~

The Department of Human Centered Design ~~and~~ & Engineering (HCDE) offers the following programs of study:

- Bachelor of Science in Human Centered Design and Engineering degree
- A minor in technical Japanese

Bachelor of Science in Human Centered Design ~~and~~ & Engineering

- *Suggested First-Year College Courses:* ~~at least 5 credits of composition and approved course in mathematics or statistics (see list on HCDE website), and approved courses options in science (see list on HCDE website)~~See regular admission requirements.

Department Admission Requirements

- Admission is competitive. Completion of minimum requirements does not guarantee admission. All applicants have the right to petition and appeal the department's admission decision.

Direct Freshman Admission

- The department enrolls up to 30% of its incoming class directly from high school, before completion of University-level prerequisites. Students accepted to the UW are automatically considered for admission to HCDE if they~~who~~ indicate Human Centered Design ~~and~~ & Engineering as their preferred major on the freshman application ~~are automatically considered~~. Competitive applicants have taken or are taking calculus and at

least two years of laboratory science (physics and chemistry are preferred) in high school. Admission is for autumn quarter only.

Regular Admission

~~1. *Course requirements:* 10 credits of approved mathematics or statistics; 15 credits of approved natural science; and 10 credits of approved written and oral communication: and CSE 140 or CSE 142. All courses must be completed prior to the July 1 or February 1 application deadlines.~~

1. *Course requirements:*
   a. Mminimum of 5 credits of mathematics: MATH 120 or MATH 124.
   b. Mminimum of 5 credits of statistics: STAT 220, STAT 221, STAT 311, QSCI 381, QMETH 201, QSCI 190, or STAT 390.
   c. Mminimum of 10 credits of science: BIOL 118, BIOL 180, BIO A 201, CHEM 142, CHEM 152, PHYS 114, PHYS 115, PHYS 121, PHYS 122, or PSYC 202.
   d. mMinimum of 5 credits of first-year composition.
   e. CSE 140 or CSE 142.
   f. All courses must be completed prior to the July 1 or February 1 application deadlines.
2. *Application deadline*: July 1 for autumn quarter and February 1 for spring quarter.
~~3. Students applying in their senior year must spend a minimum of four quarters in the program.~~
   Grade requirements: ~~Minimum 3.00 GPA in written and oral communications courses and~~ Mminimum 2.00 cumulative GPA.

Graduation Requirements

180 credits as follows:

General Education Requirements (88~~93~~ credits)

1. *Written and Oral Communication (~~13~~ 8 credits):* 5 credits of English composition from the University list; HCDE 231 (3 credits); Additional writing credits are built into the major core requirements~~HCDE 301 (5 credits)~~ ~~; 5 credits of oral/written communication from HCDE list (see adviser)~~
2. *Visual, Literary, & Performing Arts (VLPA); and Individuals & Societies (I&S) (30 credits):* Minimum of 10 credits is required in each both areas.
3. ~~*Mathematics and Natural Science*~~*Natural World (50 credits):*
   a. *Mathematics (minimum 15 credits; see list of qualifying courses on HCDE website)*
   b. *Science (minimum 15 credits; see list of qualifying courses on HCDE website)*

Major Requirements (83-87 credits)

~~1. *HCDE Core (52 credits):* HCDE 300, HCDE 303, HCDE 310, HCDE 313, HCDE 321, HCDE 411, HCDE 417, HCDE 418, HCDE 437, HCDE 493, HCDE 495 (3), HCDE 496 (2)~~
~~2. *Technical/Analytical (12 credits):* Must include CSE 140 or CSE 142~~
~~3. *Area of Concentration (19-23 credits):* Students may choose a transcriptable option in Human-Computer Interaction (HCI) or select a coherent and relevant list of approved electives to create a non-transcripted, individualized area of specialization, aligned with their personal interests or career goals. See adviser for transcriptable options and individualized area of specialization.~~

1. *HCDE Core (46 credits):* HCDE 300, HCDE 301, HCDE 308, HCDE 310, HCDE 313, HCDE 318, HCDE 321, HCDE 322, HCDE 492, HCDE 493, HCDE 495 (3), HCDE 496 (2)
2. *Engineering Fundamentals (12 credits):* See department for approved list.
3. *HCDE Electives (25-29 credits)*
    a. Standard Option: See department for approved list of HCDE electives.
    b. HCI Option: ~~-~~To satisfy the requirements for the HCI Option, students must take at least one course in HCI Foundations, and take three additional courses from at least two of the four HCI course areas (User Interface, Software, and Technology; Design: Usability and User Research; and Social and Ethical Dimensions). See department website for approved area courses. Students then take additional approved HCDE elective courses in order to reach the overall electives requirement (i.e. 25-29 credits).

Free Electives (as needed)

Continuation Policy

All students must make satisfactory academic progress in the major. Failure to do so results in probation, which can lead to dismissal from the major. For the complete continuation policy, contact the departmental advisor or refer to the department website.

Minor

Minor Requirements: Technical Japanese: Minimum of 25 credits to include HCDE 461 (5), HCDE 462 (5), HCDE 463 (5), plus 10 credits from the approved list of elective courses. For more information, contact the departmental advisor.~~Technical Japanese Office, 13 Engineering Library.~~

Student Outcomes and Opportunities

- ~~Learning Objectives and Expected Outcomes: The department has identified several areas of competency for students. By achieving mastery in all these areas, upon graduation HCDE students are well prepared to advance to careers in human-centered design and engineering (HCDE), apply to top graduate programs, and conduct research in the field. Graduates are able to:~~
  - ~~Understand the HCDE field.~~
  - ~~Conduct user research, using quantitative and qualitative methods, to identify needs and potential opportunities for new systems, and identify strengths and weaknesses of existing systems.~~
  - ~~Ideate based on understanding of users and their context.~~
  - ~~Design new systems or refinements to existing systems based on an understanding of people's wants and needs.~~
  - ~~Build prototypes of varying levels of fidelity and for various purposes, such as wireframe, video, behavioral, physical, look and feel prototypes and functional prototypes.~~
  - ~~Evaluate potential ideas, concepts or designs according to a variety of perspectives (e.g., including economic, usability, experience, and value sensitive evaluations), including evaluation of scenarios and prototypes of varying levels of fidelity.~~
  - ~~Understand the relationships between social and technical elements of systems, and how interventions that change one component may affect the other components.~~
  - ~~Communicate user needs and design proposals in written, spoken, and multimedia visual forms, to clients and other stakeholders including potential investors, engineers who could conduct detailed design and development of proposed solutions, stakeholders who would be affected by the implementation or adoption of the proposed solutions.~~
  - ~~Bring professional perspectives, ethical awareness, and lifelong learning skills to their work.~~
  - ~~Identify and learn new skills, perspectives, and tools that will help them and others accomplish their work.~~
  - ~~Accomplish above activities while maintaining an ethical perspective and awareness of their own skills and abilities.~~
- Expected Outcomes: HCDE BS graduates contribute to society by applying design and engineering ~~principles and processes~~ to solve problems though a deep understanding of people and their contexts. In particular, they are leaders in:

- Investigating people and systems, using quantitative and qualitative methods, to identify opportunities for new systems and strengths and weaknesses of existing systems.
- Designing, building, and evaluating systems according to a variety of perspectives, with an emphasis on understanding the relationships between social and technical elements of systems.
- Bringing ideas to actualization through expertise in design strategy and processes, effective communication and collaboration skills, and ethical perspectives.
- Identifying and learning new skills, perspectives, and tools that will help them and others accomplish their goals.

- The Department of Human Centered Design ~~and~~ & Engineering prepares students to assume positions ~~of intellectual leadership~~ in industry, government, and non-profit organizations and to apply to graduate programs.
- ~~Students also specialize in science writing or website design. The Technical Japanese program provides a unique opportunity to develop cross-cultural experience and expertise. Whatever their professional direction, HCDE students learn the newest communication technologies and practices, the most effective information design strategies, and the research skills appropriate to their interests. They also learn the enduring theory and principles that enable them to understand the constant changes they will encounter throughout their careers. Finally, their coursework takes place in the context of social and political issues and human needs.~~
- *Instructional and Research Facilities:* Department facilities include the HCDE Design Lab and Laboratory for Usability Testing and Evaluation (LUTE)~~, and the Technical Japanese Computer Lab~~.
- *Honors Options Available:* With College Honors (Completion of Honors Core Curriculum and Departmental Honors). With Honors (Completion of Departmental Honors requirements in the major). See ~~adviser~~ advisor for requirements.
- *Research, Internships, and Service Learning:* ~~All~~ HCDE undergraduates are required to complete at least one 3-credit internship. The supervised internship must be approved by the faculty internship ~~adviser~~advisor. As an internship substitution, students may elect to take part in a six-month co-op, sponsored by the Engineering Co-op program. Additionally, undergraduates ~~are invited to~~ work in research groups with HCDE faculty and graduate students ~~and faculty~~.
- *Department Scholarships:* ~~Annually,~~ HCDE selects one recipient of a College of Engineering Scholarship annually. The criteria considered for this scholarship are the applicant's prior academic history and likelihood for success in the field of human centered design and engineering. ~~Additionally, the Society for Technical Communication (STC) offers annual scholarships open to all students enrolled in a HCDE related program.~~

- *Student Organizations/Associations:* Students in the HCDE degree program often participate in student activities such as the HCDE Student Association, the Minority Science and Engineering Program (MSEP), and Women in Science and Engineering (WISE).
- *Of Special Note:* The HCDE department is an inclusive, interdisciplinary ~~a small,~~ academic community. Students have the opportunity to work on projects and research supervised by HCDE faculty. Undergraduate students are encouraged to work in research groups and to attend conferences and professional meetings.

Attachment B: Proposed Catalog Copy (showing final version)

Undergraduate Program

Advisor
428 Sieg, Box 352315
(206) 543-2567
http://www.hcde.washington.edu/

The Department of Human Centered Design & Engineering (HCDE) offers the following programs of study:

- Bachelor of Science in Human Centered Design and Engineering degree
- Bachelor of Science in Human Centered Design and Engineering degree, with an option in human-computer interaction
- A minor in technical Japanese

Bachelor of Science in Human Centered Design & Engineering

- *Suggested First-Year College Courses:* See regular admission requirements.

Department Admission Requirements

- Admission is competitive. Completion of minimum requirements does not guarantee admission. All applicants have the right to petition and appeal the department's admission decision.

Direct Freshman Admission

- The department enrolls up to 30% of its incoming class directly from high school before completion of University-level prerequisites. Students accepted to the UW are automatically considered for admission to HCDE if they indicate Human Centered Design & Engineering as their preferred major on the freshman application. Competitive applicants have taken or are taking calculus and at least two years of laboratory science (physics and chemistry are preferred) in high school. Admission is for autumn quarter only.

Regular Admission

1. *Course requirements:*
    a. Minimum of 5 credits of mathematics: MATH 120 or MATH 124.
    b. Minimum of 5 credits of statistics: STAT 220, STAT 221, STAT 311, QSCI 381, QMETH 201, QSCI 190, or STAT 390.
    c. Minimum of 10 credits of science: BIOL 118, BIOL 180, BIO A 201, CHEM 142, CHEM 152, PHYS 114, PHYS 115, PHYS 121, PHYS 122, or PSYC 202.
    d. Minimum of 5 credits of first-year composition.
    e. CSE 140 or CSE 142.
    f. All courses must be completed before the July 1 or February 1 application deadlines.
2. *Application deadline*: July 1 for autumn quarter and February 1 for spring quarter.
3. *Grade requirements:* Minimum 2.00 cumulative GPA.

Graduation Requirements

180 credits as follows:

General Education Requirements (88 credits)

1. *Written and Oral Communication (8 credits):* 5 credits of English composition from the University list; HCDE 231 (3 credits); Additional writing credits are built into the major core requirements.
2. *Visual, Literary, & Performing Arts (VLPA); and Individuals & Societies (I&S) (30 credits):* Minimum of 10 credits is required in both areas.
3. *Natural World (50 credits):*
    a. *Mathematics (minimum 15 credits; see list of qualifying courses on HCDE website).*
    b. *Science (minimum 15 credits; see list of qualifying courses on HCDE website).*

Major Requirements (83-87 credits)

1. *HCDE Core (46 credits)*: HCDE 300, HCDE 301, HCDE 308, HCDE 310, HCDE 313, HCDE 318, HCDE 321, HCDE 322, HCDE 492, HCDE 493, HCDE 495 (3), HCDE 496 (2).
2. *Engineering Fundamentals (12 credits)*: See department for approved list.
3. *HCDE Electives (25-29 credits)*
    a. Standard Option: See department for approved list of HCDE electives.
    b. HCI Option: To satisfy the requirements for the HCI Option, students must take at least one course in HCI Foundations, and take three additional courses from at least two of the four HCI course areas (User Interface, Software, and Technology;

Design; Usability and User Research; and Social and Ethical Dimensions). See department website for approved area courses. Students then take additional approved HCDE elective courses in order to reach the overall electives requirement (i.e. 25-29 credits).

4. Minimum 2.00 cumulative quarterly GPA
5. Minimum 2.00 cumulative GPA for all HCDE courses.

Free Electives (as needed)

Continuation Policy

All students must make satisfactory academic progress in the major. Failure to do so results in probation, which can lead to dismissal from the major. For the complete continuation policy, contact the departmental advisor or refer to the department website.

Minor

Minor Requirements: Technical Japanese: Minimum of 25 credits to include HCDE 461 (5), HCDE 462 (5), HCDE 463 (5), plus 10 credits from the approved list of elective courses. For more information, contact the departmental advisor.

Student Outcomes and Opportunities

- Expected Outcomes: HCDE BS graduates contribute to society by applying design and engineering processes to solve problems though a deep understanding of people and their contexts. In particular, they are leaders in:
    - Investigating people and systems, using quantitative and qualitative methods, to identify opportunities for new systems and strengths and weaknesses of existing systems.
    - Designing, building, and evaluating systems according to a variety of perspectives, with an emphasis on understanding the relationships between social and technical elements of systems.
    - Bringing ideas to actualization through expertise in design strategy and processes, effective communication and collaboration skills, and ethical perspectives.
    - Identifying and learning new skills, perspectives, and tools that will help them and others accomplish their goals.
- The Department of Human Centered Design & Engineering prepares students to assume positions in industry, government, and non-profit organizations and to apply to leading graduate programs.

- *Instructional and Research Facilities:* Department facilities include the HCDE Design Lab and Laboratory for Usability Testing and Evaluation (LUTE).
- *Honors Options Available:* With College Honors (Completion of Honors Core Curriculum and Departmental Honors). With Honors (Completion of Departmental Honors requirements in the major). See advisor for requirements.
- *Research, Internships, and Service Learning:* HCDE undergraduates are required to complete at least one 3-credit internship. The supervised internship must be approved by the faculty internship advisor. As an internship substitution, students may elect to take part in a six-month co-op, sponsored by the Engineering Co-op program. Additionally, undergraduates work in research groups with HCDE faculty and graduate students.
- *Department Scholarships:* HCDE selects one recipient of a College of Engineering Scholarship annually. The criteria for this scholarship are the applicant's academic history and likelihood for success in the field of human centered design and engineering.
- *Student Organizations/Associations:* Students in the HCDE degree program participate in student activities such as the HCDE Student Association, the Minority Science and Engineering Program (MSEP), and Women in Science and Engineering (WISE).
- *Of Special Note:* The HCDE department is an inclusive, interdisciplinary academic community. Students have the opportunity to work on projects and research supervised by HCDE faculty. Undergraduate students are encouraged to work in research groups and to attend conferences and professional meetings.

Attachment C: Proposed Continuation Policy

Continuation of Program

While the University has general regulations governing scholastic eligibility for continuation, departments in the College of Engineering have adopted additional requirements in order to make the best use of the limited facilities and resources available and to provide reasonable assurance of academic success. The following criteria and procedures will be applied to all undergraduate students for determining continuance in the major program.

Basic Criteria for Continuation

1. Full-time students must complete 12 or more credits per quarter that are applicable to the BS in HCDE degree. An average of 15 hours per quarter is required to complete the minimum graduation requirements in the conventional 12 quarters. Once enrolled in HCDE 300 and HCDE 310, students are required to move through the core coursework as a cohort (see the course of study plan on the department website); any deviation from the stated plan requires a petition. Students who fail to maintain registration in core coursework without approval are dropped from the department.
2. Part-time attendance is possible, subject to approval by the advisor and chair of the department. Application for part-time status should be made before the first day of the quarter. Students who receive permission to attend part time must complete at least one course each quarter applicable to their degree in HCDE.
3. Students admitted through Direct Freshman Admission are expected to follow the course of study plan (see department website) and be prepared take HCDE 300 and HCDE 310 in autumn of their junior year. Before autumn quarter of the junior year, students are expected to have the following courses completed: 5 credits of approved mathematics, 5 credits of approved statistics, 10 credits of approved science, 5 credits of approved written and oral communication, and CSE 140 or CSE 142. Students who fail to do so are dropped from the department.
4. Students pursuing two or more degrees must submit an academic plan with timeline for approval by the department. If approved, the academic plan defines the number of credits and courses applicable towards the degrees that must be completed each quarter to maintain satisfactory progress. Students may not add a second major after completion of HCDE's second year core coursework.
5. A student who has withdrawn from the UW or from a required HCDE course or who is dropped for non-payment of fees must obtain approval of the department admissions committee before registering or maintaining preregistration for subsequent HCDE courses.
6. Students must maintain a quarterly minimum 2.00 cumulative GPA.
7. Students must maintain a minimum 2.00 GPA for all HCDE courses

Academic Probation

Any student will be placed on academic probation if:

1. The student's quarterly GPA falls below a 2.00, or
2. The student's cumulative HCDE GPA falls below 2.00

Dismissal from the major

Any student on academic probation will be dismissed from the major if:

1. The student does not achieve a quarterly minimum 2.00 cumulative GPA while on probation, or
2. The student does not raise their cumulative HCDE GPA over the minimum 2.00.

Review and Notification of Progress

The progress of each student is reviewed each quarter. If a student's performance fails to meet the standards outlined above, the student is placed on probation the following quarter. The student receives notification in writing of the reason for probation. If the student does not remove his or her deficiencies in the following quarter, the student is notified in writing that he or she has been dropped from the Department.

Appealing for Continuation in HCDE

Students may appeal for continuation in the Department of Human Centered Design & Engineering by writing a letter to the Department chair. The letter should describe any extenuating circumstances and may include any additional information in support of the appeal that the student believes is relevant. Issues that will be considered (and that the student may wish to address) include, but are not limited to:

1. Cumulative GPA
2. GPA in required courses or courses in Human Centered Design & Engineering
3. Number of course repeats, incomplete grades, and withdrawals
4. Difficulty of previous course loads (type of courses and number of credits)
5. Personal statements
    - Adequacy of college preparation
    - Reasons for choosing HCDE
    - Applicable employment experience
    - Maturity
    - Record of honors, activities, and service
    - Other (includes health, financial, and family problems)
6. Grading practices of transfer institutions
7. Letters of recommendation

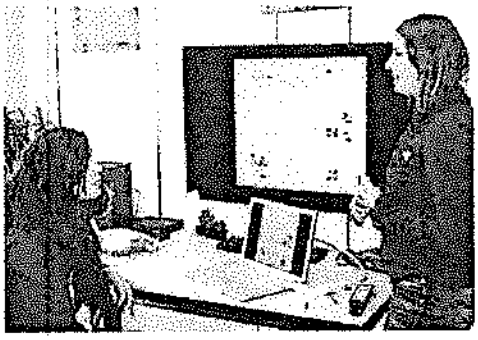
8. Appropriate test scores (SAT, etc.)

The letter and supporting material will be transmitted to the Admissions Committee of the Department. The appeal must be made within 30 days of notification of placement on probation, or dismissal. A response to the appeal must be made by the Committee within 30 days.

Any student denied continuation may request a personal interview to discuss or amplify any matter in his/her continuation policy statement. No student shall be denied this right.

The University of Washington reaffirms its policy of equal opportunity regardless of race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled veteran or Vietnam era veteran in accordance with University of Washington policy and applicable federal and state statutes and regulations.

HCI Degree Option



The Human-Computer Interaction (HCI) degree option is part of the Bachelor of Science in Human Centered Design & Engineering (BSHCDE) degree program. All students interested in pursuing the HCI degree option within the BSHCDE should contact their academic adviser.

Please review the BS in HCDE: HCI Degree Option Course of Study form (PDF).

What is Human-Computer Interaction?

HCI is a new and developing field. According to the Association for Computing Machinery (ACM), Human-Computer Interaction is a discipline concerned with the design, evaluation, and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them. HCI is necessarily a multidisciplinary field, incorporating facets of information science, computer science, design, and technical communication among other fields. The University of Washington is becoming a global leader in this exciting new area.

The UW has exceptional faculty collaborating on world-class research in HCI and that collaboration extends directly to students in the classroom. Students who complete coursework in this area will obtain first-class academic preparation in a variety of different forms and get official recognition for this work.

Students interested in HCI can complete the official HCI option with coursework from four participating departments: Human Centered Design & Engineering, Computer Science & Engineering, the Division of Design within the School of Art, and The Information School. Students choose from these departments based on the following requirements.

Requirements for the HCI Degree Option

Minimum of four courses from the list below (19–23 credits):

1. Take at least one course in **HCI Foundations**.
2. Take three courses from at least two of the four **HCI Course Areas.** At least one of these three courses must be from a participating department besides HCDE.

1. User Interface, Software, and Technology
2. Design
3. Usability and User Research
4. Social and Ethical Dimensions

HCI Foundations

- ART 383 Introduction to Interaction Design (5)
- CSE 440 Introduction to HCI: User Interface Design, Prototyping, and Evaluation (5)
- HCDE 419 Concepts in Human-Computer Interaction (5)

HCI Course Areas

User Interface, Software, and Technology

- CSE 441 Advanced HCI: Advanced User Interface Design, Prototyping, and Evaluation (5)
- INFO 343 Web Technologies (5) or CSE 154: Web Programming (5)
- INFO 344 Web Tools and Development (5)
- HCDE 438 Web Technologies (5)
- INFO 463 Input and Interaction (5)

Design

- ART 483 Fundamentals in Interface Design (5)
- ART 484 Advanced Projects in Interaction Design (5)
- INFO 424 Information Visualization and Aesthetics (5)
- HCDE 455 User Interface Design (4)
- INFO 461 Cooperative Aspects of User Centered Design (5)

Usability and User Research

- INFO 310 Individual Perspectives on Information Systems (5)
- HCDE 407 Software User Assistance (5)

Social and Ethical Dimensions

- INFO 444 Value Sensitive Design (5)
- INFO 447 Computer Supported Cooperative Work (5)

The following courses may be approved within any of the course areas on an individual and per-course basis, depending on the topic matter and its suitability to a course area within the HCI option.

- INFO 498 Special Topics in Informatics
- HCDE 496 Directed Research in Human Centered Design & Engineering

Contact HCDE Undergraduate Advising

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Upcoming Deadlines

User-Centered Design Certificate Application--Aug 15, 2014
Application now open
hcde.uw.edu/ucd

BS Application--CLOSED
Next deadline: July 1, 2014
Online application opens in June
hcde.uw.edu/bs

PhD Application--CLOSED
Next deadline Dec 15, 2014
hcde.uw.edu/phd

MS Application--CLOSED
Next deadline Jan 15, 2015
hcde.uw.edu/ms

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